

IN THE CLAIMS

Please amend the claims as indicated by status and revisions marks:

1. (CURRENTLY AMENDED) A method comprising:

controlling a variable power supply to supply power at approximately a first supply level for an electronic device;

identifying a second supply level to be supplied for the electronic device;
and

in response to identifying the second supply level, controlling the variable power supply to control a transition of the power from approximately the first supply level toward the second supply level prior to controlling the variable power supply to supply power at approximately the second supply level for the electronic device, wherein the power is successively controlled to transition to one or more supply levels intermediate between the first and second supply levels if the second supply level, operational state of the electronic device, or difference between the first and second supply levels satisfies one or more pre-determined conditions.

2. (ORIGINAL) The method of claim 1, comprising identifying that the second supply level satisfies one or more of one or more predetermined conditions.

3. (ORIGINAL) The method of claim 2, comprising identifying that the power for the electronic device is to change to the second supply level in response to a change between different operation states of the electronic device.

4. (ORIGINAL) The method of claim 3, wherein the electronic device comprises subscriber line interface circuitry and has at least an off-hook operation state, an on-hook operation state, and a ringing operation state.

5. (ORIGINAL) The method of claim 2, comprising identifying that the difference between the second supply level and the first supply level satisfies one or more of one or more predetermined relationships with one or more thresholds.

6. (ORIGINAL) The method of claim 2, comprising identifying that the second supply level satisfies one or more of one or more predetermined relationships with one or more supply level ranges.

7. (ORIGINAL) The method of claim 1, wherein the controlling the variable power supply to control a transition of the power from approximately the first supply level toward the second supply level comprises generating an analog ramp signal to control the variable power supply.

8. (ORIGINAL) The method of claim 1, wherein the controlling the variable power supply to control a transition of the power from approximately the first supply level toward the second supply level comprises controlling the variable power supply to change the power to approximately one or more intermediate supply levels prior to controlling the variable power supply to change the power to approximately the second supply level.

9. (ORIGINAL) The method of claim 1, wherein the variable power supply comprises a direct-current to direct-current (DC-DC) converter and wherein the controlling the variable power supply comprises generating one or more control signals to control the DC-DC converter.

10. (CURRENTLY AMENDED) An electronic device comprising:
a supply level controller coupled to control a variable power supply to supply power at a supply level for the electronic device; and

a transition-to-target controller coupled to control the supply level controller to control the variable power supply to supply power at approximately a first supply level for the electronic device and to control the variable power supply to control a transition of the power from approximately the first supply level toward a second supply level prior to controlling the variable power supply to supply power at approximately the second supply level for the electronic device, wherein the power is successively controlled to transition to one or more supply levels intermediate between the first and second supply levels if the second supply level, operational state of the electronic device, or difference between the first and second supply levels satisfies one or more pre-determined conditions.

11. (ORIGINAL) The electronic device of claim 10, wherein the transition-to-target controller comprises circuitry to identify that the second supply level satisfies one or more of one or more predetermined conditions.

12. (ORIGINAL) The electronic device of claim 11, wherein the transition-to-target controller comprises circuitry to identify that the power for the electronic device is to change to the second supply level in response to a change between different operation states of the electronic device.

13. (ORIGINAL) The electronic device of claim 12, wherein the electronic device comprises subscriber line interface circuitry and has at least an off-hook operation state, an on-hook operation state, and a ringing operation state.

14. (ORIGINAL) The electronic device of claim 11, wherein the transition-to-target controller comprises circuitry to identify that the difference between the second supply level and the first supply level satisfies one or more of one or more predetermined relationships with one or more thresholds.

15. (ORIGINAL) The electronic device of claim 11, wherein the transition-to-target controller comprises circuitry to identify that the second supply level satisfies one or more of one or more predetermined relationships with one or more supply level ranges.
16. (ORIGINAL) The electronic device of claim 10, wherein the transition-to-target controller comprises circuitry to generate and output one or more control signals representative of one or more supply levels to control the supply level controller to control the transition of power.
17. (ORIGINAL) The electronic device of claim 10, wherein the transition-to-target controller comprises circuitry to generate an analog ramp signal to control the supply level controller to control the transition of power.
18. (ORIGINAL) The electronic device of claim 10, wherein the transition-to-target controller comprises circuitry to generate one or more sets of one or more digital signals representative of an intermediate supply level between the first and second supply levels to control the supply level controller to control the transition of power.
19. (ORIGINAL) The electronic device of claim 10, wherein the transition-to-target controller comprises circuitry to generate and output one or more target control signals representative of the second supply level to the supply level controller and to generate and output one or more control signals to control one or more controller parameters for the supply level controller to control the transition of power.
20. (ORIGINAL) The electronic device of claim 10, wherein the variable power supply comprises a direct-current to direct-current (DC-DC) converter

and wherein the supply level controller is to generate a control signal to control the DC-DC converter.

21. (ORIGINAL) The electronic device of claim 10, in combination with the variable power supply.

22. (CURRENTLY AMENDED) An apparatus comprising:

means for controlling a variable power supply to supply power at approximately a first supply level for an electronic device; and

means for controlling the variable power supply to control a transition of the power from approximately the first supply level toward a second supply level prior to controlling the variable power supply to supply power at approximately the second supply level for the electronic device, wherein the power is successively controlled to transition to one or more supply levels intermediate between the first and second supply levels if the second supply level, operational state of the electronic device, or difference between the first and second supply levels satisfies one or more pre-determined conditions.

23. (ORIGINAL) The apparatus of claim 22, comprising means for performing one or more BORSCHT functions.